10/56541PBTENT Case No. ITR0065YP

## IAP6 Rec'd PCT/PTO 23 JAN 2006

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Monaci, et al.	
Serial No. To Be Assigned	Art Unit:
Filed: January 23, 2006	Examiner:
For: SYNTHETIC GENE ENCODING HUMAN E GROWTH FACTOR 2/NEU ANTIGEN AND THEREOE	PIDERMAL

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

## INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

EUTRESS MAIL CERTIFICATE
TONLOGIZ 3 2006
MARCO MAR MA FV 321985003US
HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL BETVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE"
ON THE ABOVE DATE IN AN ENVELOPE ADDRESSED TO
COMMISSIONER FOR PATENTS, P.O. BOX 1450,
ALEXANDRIA, VIRGINIA 22313-1450.
MARED BY Chitic Cuffs
DATE 1-23-04

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandra, Virginia 22313-1450, on the date appearing below.

	M <del>E</del> RCK :	& ୯୭ <sub>ଏ</sub> INC.	
Ву		Date	
,		7	

**RELATED APPLICATION** 

**MERCK CASE** 

**FILING DATE** 

INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

U. S. SERIAL NUMBER

If th	nis is inconvenient, additional copies will be submitted upon request	i.					
(	6. In accordance with 37 C.F.R. 1.97, (check one)						
	the attached information is filed within three months of the filing date	te of the captioned case.					
	the attached information is filed more than three months after the fi Office Action on the merits.	iling date but prior to the m	ailing of a first				
	the attached information is filed before the mailing of a first Office a examination under §1.114.	action after the filing of a re	quest for continued				
	the attached information is being filed more than three months after the filing date and after the mailing of a first Office Action on the merits, but before the mailing date of a Final Action, Notice of Allowance, or an action that otherwise closes prosecution in the application. The enclosed authorization is therefore given to charge Deposit Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p).						
	each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.						
	each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the information disclosure statement.						
	no item of information contained in this Information Disclosure Stat foreign patent office in a counterpart foreign application, and, to the after making reasonable inquiry, was known to any individual design months prior to the filing of this Statement.	e knowledge of the person	signing the certification				
	·	Respectfully submitted/	-				

By: Alysia A. Finnegan

Attorney For Applicant(s)

Reg. No. 48,878

MERCK & CO., INC.

Patent Dept., RY60-30

P.O. Box 2000

Rahway, N.J. 07065-0907

(732)594-2583

Date: 1/23/00

IAP6 Rec'd PCT/PTO 23 JAN 2006 ved for use through 7/31/2006. OMB 0651-0031 PTO/SB/08A (07-05), Information Disclosure Statement by Applicant Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE

s	ubstitute for form 1449A/PTO			COMPLETE IF KNOWN		
' 1	INFORMATION DISCLOSURE		Application Number	To Be Assigned / 565 418		
STATEMENT BY APPLICANT				Filing Date	January 23, 2006	
2	STATEMENT BY	AF	PLICANI	First Named Inventor	Monaci, et al.	
				Group Art Unit		
	(use as many sheets	as ne	ecessary)	Examiner Name		
Sheet	1	of	3	Attorney Docket Number	ITR0065YP	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Cođe (if known)		Date of Publication of Cited Document MM-DD-YYYY	
		5,837,523		Greene, et al.	11/17/1998	
		5,846,538		Cheever, et al.	12/08/1998	
		5,869,445		Cheever, et al.	02/09/1999	
		6,127,344		Amici, et al.	10/03/2000	
					·	

			FOREIG	GN PATENT	Γ DOCUMENTS	
Examiner	Cite	Foreign Patent Document		Name of Detented on Applicant	Date of Publication of	
Initials*	No.	Office	Office Number		Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY
		PCT	WO02/022080 A3		Merck & Co., Inc.	03/21/2002
		PCT	WO2004/041065 A2		National Institutes of Health	05/21/2004
	PCT WO2004/061105 A1		IRBM	07/22/2004		

Examiner Signature	*	Date Considered	

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IAP6 Rec'd PCT/PT0 23 JAN 2006
SUBSTITUTE for PTO/SB/08A (07-05), Information Disclosure Statement by Applicant Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE

<i>(</i> .	substitute for form 1449B/PTO			COMPLETE IF KNOWN I I 1 1 0			
	INFORMATION DISCLOSURE		Application Number	To Be Assigned 202418			
١,	STATEMENT BY	A D	DI ICANT	Filing Date	January 23, 2006		
,	STATEMENT DI	AI	FLICANI	First Named Inventor	Monaci, et al.		
	(			Group Art Unit			
	(use as many sheets	as n	iecessary)	Examiner Name			
Sheet	2	of	3	Attorney Docket Number	ITR0065YP		

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
		Bargmann, et al., "The neu oncogene encodes an epidermal growth factor receptor-related protein", Nature, Vol. 319, 16 January 1986, pp. 226-230.
		Ben-Levy, et al., "A single autophosphorylation site confers oncogenicity to the Neu/ErbB-2 receptor and enables coupling to the MAP kinase pathway", EMBO Journal, Vol. 13, No. 14, pp. 3302-3311, 1994.
		Coussens, et al., "Tyrosine Kinase Receptor with Extensive Homology to EGF Receptor Shares Chromosomal Location with neu Oncogene", Science, Vol. 230, pp. 1132-1139, December 6, 1985.
	-	Disbrow, et al., "Codon optimization of the HPV-16 E5 gene enhances protein expression", Virology, Vol. 311, pp. 105-114, 2003.
		Disis, et al., "Cancer Vaccines Targeting the Her2/neu Oncogenic Protein", Seminars in Oncology, Vol. 28, No. 6, Suppl. 18, December 2001, pp. 12-20.
		Disis, et al., "Generation of T-Cell Immunity to the Her-2/neu Protein After Active Immunication With Her-2/neu Peptide-Based Vaccines", Journal of Clinical Oncology, Vol. 20, No. 11, June 1, 2002, pp. 2624-2632.
:		Disis, et al., "Her-2/neu Protein: A Target for Antigen-Specific Imunotherapy of Human Cancer", Advances in Cancer Research, Vol. 71, pp. 343-371, 1997.
		Disis, et al., "Oncogene proteins as tumor antigens", Current Opinion in Immunology, Vol. 8, 1996, pp. 637-642.
		Fisk, et al., "Identification of Naturally Processed Human Ovarian Peptides Recognized by Tumor-Associated CD8+ Cytotoxic T Lymphocytes", Cancer Research, Vol. 57, pp. 87-93, January 1, 1997.
		Foy, et al., "Vaccination with Her-2/neu DNA or protein subunits protects against growth of a Her-2/neu-expressing murine tumor", Vaccine, Vol. 19, pp. 2598-2606, 2001.
		Gallo, et al., "Xenogeneic Immunization in Mice Using HER2 DNA Delivered by an Adenoviral Vector", Int. J. Cancer, Vol. 113, pp. 67-77, 2004.
		Ikemura, "Codon Usage and tRNA Content in Unicellular and Multicellular Organisms", Mol Biol. Evol. Vol. 2, No. 1, pp. 13-34, 1985.
		Ioannides, et al., "Cytotixic T Cells Isolated from Ovarian Malignant Ascites Recognize a Peptide Derived from the Her-2/neu Proto-oncogene", Cellular Immunology, Vol. 151, pp. 225-235, 1993.
		King, et al., "Amplification of a Novel v-erbB-Related Gene in a Human Mammary Carcinoma", Science, Vol. 229, No. 4717, pp. 974-976, 1985.
		Klapper, et al., "Biochemical and Clinical Implications of the ErbB/HER Signaling Network of Growth Factor Receptors", Adv. Cancer Res., Vol. 77, pp. 25-79, 2000.

Examiner Signature	Date Considered	

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

IAP6 Rec'd PCT/PTO 23 JAN 2006
Approved for use through 7/31/2006. OMB 0651-0031
SUBSTITUTE for PTO/SB/08A (07-05), Information Disclosure Statement by Applicant
Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE

•					, , , , , , , , , , , , , , , , , , , ,		
	Substitute for form 1449B/PTO			COMPLETE IF KNOWN			
,	INFORMATION DISCLOSURE		Application Number	To Be Assigned 0./ 565418			
STATEMENT BY APPLICANT				Filing Date	January 23, 2006		
	SIAIEMENI DI	Ar	PLICANI	First Named Inventor	Monaci, et al.		
			,	Group Art Unit			
	(use as many sheets	as n	ecessary)	Examiner Name			
Shee	3	of	3	Attorney Docket Number	ITR0065YP		
_							

NON PATENT LITERATURE DOCUMENTS						
Exammer Initials*	include name of the author, title, date, page(s), volume-issue number(s) and place of publication.					
		Leder, et al., "Enhancement of Capsid Gene Expression: Preparing the Human Papillomavirus Type 16 Major Structural Gene L1 for DNA Vaccination Purposes", J. of Virol., Vol. 75, No. 19, pp. 9201-9209, Oct. 2001.				
		Lustgarten, et al., "Identification of Her-2/Neu CTL Epitopes Using Double Transgenic Mice Expressing HLA-A2.1 and Human CD.8", Human Immunology, Vol. 52, pp. 109-118, 1997.				
		Messerle, et al., "NIH/3T3 cells transformed with the activated erbB-2 oncogene can be phenotypically reverted by a kinase deficient, dominant negative erbB-2 variant", Mol. and Cell. Endo., Vol. 105, pp. 1-10, 1994.				
		Montgomery, et al., "Heterologous and Homologous Protection Against Influenza A by DNA Vaccination: Optimization of DNA Vectors", DNA and Cell Biology, Vol. 13, No. 9, pp. 777-783, 1993.				
		Nakamura, et al., "Codon usage tabulated from the international DNA sequence databases: Its status 1999", Nucleic Acids Research, Vol. 27, No. 1, pp. 292, 1999.				
		Peoples, et al., "T lymphocytes that infiltrate tumors and atherosclerotic plaques produce heparin-binding epidermal frowth factor-like growth factor and basic fibroblast growth factor: A potential pathologic role", PNAS, USA, Vol. 92, pp. 6547-6551, 1995.				
		Press, et al., "Expression of the HER-2/neu proto-oncogene in normal human adult and fetal tissues", Oncogene, Vol. 5, pp. 953-962, 1990.				
		Shih, et al., "Transforming genes of carcinomas and neuroblastomas introduced into mouse fibroblasts", Nature, Vol. 290, pp. 261-264, March 19, 1981.				
		Slamon, et al., "Studies of the HER-2/neu Proto-oncogene in Human Breast and Ovarian Cancer", Science, Vol. 244, 707-712, May 12, 1989.				
		Slichenmyer, et al., "Anticancer Therapy Targeting the ErbB Family of Receptor Tyrosine Kinases", Seminars in Oncology, Vol. 28, No. 5, Suppl. 16, October 2001, pp. 67-79.				
		Yamamoto, et al., "Similarity of protein encoded by the human c-erb-B-2 gene to epidermal growth factor receptor", Nature, Vol. 319, pp. 230-234, January 22, 1986.				
		Yarden, et al., "Biology of HER2 and Its Importance in Breast Cancer", Oncology, Vol. 61 (Suppl. 2), pp. 1-13, 2001.				
		Yoshino, et al., "HER2/neu-derived Peptides Are Shared Antigens among Human Non-Small Cell Lung Cancer and Ovarian Cancer", Cancer Research, Vol. 54, pp. 3387-3390, 1994.				
		1-13, 2001.  Yoshino, et al., "HER2/neu-derived Peptides Are Shared Antigens among Human Non-Small Cell				

Examiner Signature	Date Considered	